

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.-65. (Cancelled).

66. (Currently amended) An isolated, or purified polypeptide, said polypeptide comprising a or enriched bacterial polypeptide fragment or variant that is derived from of *Staphylococcus aureus* (*S. aureus*) DnaG primase set forth in comprising SEQ ID NO: 2, wherein said polypeptide bacterial polypeptide fragment or variant comprises less than 566 amino acids of SEQ ID NO: 2, and wherein said polypeptide binds a bacteriophage polypeptide.

67. (Currently amended) The isolated or purified polypeptide bacterial polypeptide fragment or variant of claim 66, wherein said fragment or variant possess a an biological activity selected from the group consisting of: ~~in vitro or in vivo~~ activation of DNA polymerase activity, RNA primase activity, stimulation of helicase activity of *S. aureus* DnaC helicase, and stimulation of ATPase activity of *S. aureus* DnaC helicase.

68. (Currently amended) The isolated or purified polypeptide bacterial polypeptide fragment or variant of claim 66, wherein said bacteriophage polypeptide is a polypeptide of originates for bacteriophage 96.

69. (Currently amended) The isolated or purified polypeptide bacterial polypeptide fragment or variant of claim 68, wherein said bacteriophage polypeptide is selected from the group consisting of 96ORF078 (SEQ ID NO: 4), a fragment of 96ORF078 and fragments, and a variant of 96ORF078 or variants thereof.

70. (Currently amended) The isolated or purified polypeptide ~~bacterial polypeptide fragment or variant~~ of claim 66, wherein said polypeptide comprises a bacterial fragment or variant of less than 566 amino acids of *S. aureus* DnaG primase set forth in SEQ ID NO: 2 ~~comprises a domain 100% identical to contiguous amino acids as set forth in SEQ ID NO: 2, said domain having less than 566 amino acids.~~

71. (Currently amended) The isolated or purified polypeptide ~~bacterial polypeptide fragment or variant~~ of claim 70, wherein said fragment is selected from the group consisting of residues 35-599, residues 229-599, residues 380-599, residues 449-599, residues 490-599, residues 530-599, and residues 561-599 from SEQ ID NO: 2.

72. (Currently amended) A composition comprising a first isolated or purified polypeptide domain and a second isolated or purified polypeptide domain, wherein said first domain and said second domain binding specifically bind with each other, wherein said first domain is derived from *S. aureus* DnaG primase set forth in a STAAU_R9 polypeptide comprising SEQ ID NO: 2, and wherein said second domain is derived from a bacteriophage polypeptide that binds *S. aureus* DnaG primase set forth in SEQ ID NO: 2 ~~binding to said STAAU_R9 polypeptide.~~

73.-83. (Cancelled).

84. (Currently amended) An isolated, or purified or enriched polypeptide comprising an amino acid sequence having at least 92% identity over the entire length of at least 10 contiguous amino acid residues from amino acids 1 to 34 of as set forth in SEQ ID NO: 2

85. (Currently amended) An isolated, or purified or enriched polypeptide comprising amino acids 1 to 34 as set forth in SEQ ID NO: 2.

86. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 95% identity over the entire length of SEQ ID NO: 2.

87. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 95% similarity over the entire length of SEQ ID NO: 2.

88. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide consisting essentially of the amino acid sequence of SEQ ID NO: 2.

89. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 95% 60%-identity over the entire length of ~~with-amino acids 1 to 50 of SEQ ID NO: 2.~~

90. (Currently amended) An isolated, or purified ~~or enriched~~ polypeptide comprising an amino acid sequence having at least 97% identity over the entire length of ~~80% similarity with amino acids 1 to 50 of SEQ ID NO: 2.~~

91. (Currently amended) An isolated, or purified ~~or enriched~~ ~~biologically active~~ primase, wherein said primase comprises ~~a domain having an amino acid sequence selected from the group consisting of:~~

(a) an amino acid sequence having at least 92% identity over the entire length of ~~sequences comprising at least 10 contiguous amino acid residues from amino acids 1 to 34 of as set forth in SEQ ID NO: 2;~~

(b) an amino acid sequence ~~sequences having at least 95% 60%-identity over the entire length of~~ ~~with-amino acids 1 to 50 of SEQ ID NO: 2;~~

(c) an amino acid sequence ~~sequences having at least 97% identity over the entire length of~~ ~~80% similarity with-amino acids 1 to 50 of SEQ ID NO: 2;~~

(d) an amino acid sequence ~~sequences~~ having at least 95% identity over the entire length of SEQ ID NO: 2;

(e) an amino acid sequence ~~sequences~~ having at least 95% similarity over the entire length of SEQ ID NO: 2; and

(f) an amino acid sequence set forth in SEQ ID NO: 2;
and wherein said primase possess a biological activity selected from the group consisting of activation of DNA polymerase activity, RNA primase activity, stimulation of helicase activity of *S. aureus* DnaC helicase, and stimulation of ATPase activity of *S. aureus* DnaC helicase.

92.-104. (Cancelled).